

**PATENT APPLICATION**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

John O. LAMPING

New U.S. Application

Filed: January 16, 2002

Docket No.: 108759

For: ASPECT-ORIENTED PROGRAMMING WITH MULTIPLE SEMANTIC LEVELS

**PRELIMINARY AMENDMENT**

Director of the U.S. Patent and Trademark Office  
Washington, D. C. 20231

Sir:

Prior to initial examination, please amend the above-identified application as follows:

IN THE SPECIFICATION:

Please cancel paragraphs 18-20 and insert therefore:

[0018] Fig. 2 illustrates one exemplary embodiment of the different degrees of processing, as represented by various stages of a programming element, in a semantic-based aspect-oriented programming environment according to the systems and methods of this invention;

[0019] Figs. 3A-3C are an exemplary pseudo-code listing of a program for accomplishing loop fusion using the systems and methods according to this invention;

[0020] Fig. 4 illustrates in greater detail one exemplary embodiment of the relationships between the stages illustrated in Fig. 2; and

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REMARKS

By this Preliminary Amendment, the brief description of Figures 3A-3C and 4 is revised to reflect the actual order of the corresponding drawings, and the brief description of Fig. 2 is revised to better reflect the content of that drawing.

Respectfully submitted,



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## APPENDIX

## Changes to Specification:

The following is a marked-up version of the amended paragraph:

[0018] ~~Fig. 2 illustrates one exemplary embodiment of the stages of a programming element according in a semantic-based aspect-oriented programming environment to the systems and methods of this invention~~different degrees of processing, as represented by various stages of a programming element, in a semantic-based aspect-oriented programming environment according to the systems and methods of this invention;

[0019] ~~Fig. 3 illustrates in greater detail one exemplary embodiment of the relationships between the stages illustrated in Fig. 2~~Figs. 3A-3C are an exemplary pseudo-code listing of a program for accomplishing loop fusion using the systems and methods according to this invention;

[0020] ~~Figs. 4A-4C are an exemplary pseudo-code listing of a program for accomplishing loop fusion using the systems and methods according to this invention;~~and Fig. 4 illustrates in greater detail one exemplary embodiment of the relationships between the stages illustrated in Fig. 2; and